



Sealed Unit Parts Co., inc.

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DPG25V



DPG25V
Digital Pressure Gauge
Manual

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Operating Instructions

Rev 1.0

The DPG25V is a microcontroller based digital pressure gauge that can be used with any gas, liquid or solid that is compatible with 17-4 PH stainless steel.

The DPG transducer is a one-piece high strength stainless steel construction that uses no silicone oil, no welds, no o-rings or seals making it ideal for pressure measurements of all kinds.

All functions of the DPG are controlled from 3 front panel push buttons located below the display. Each button has a specific function as described below.

POWER: Press and release this button to turn the DPG ON or OFF. The DPG will automatically turn OFF after one hour to conserve battery power.

ZERO: Press and release this button to place the DPG in RELATIVE PRESSURE mode. The display will read ZERO at the pressure the button was pressed at and display pressure readings +/- relative to the pressure displayed at the time the button was pushed. Press this button again to return to GAUGE mode of operation.

UNITS: Press this button to cycle through the UNITS of measurement the DPG can display. The DPG can measure pressure in PSI, BAR, Kg/cm², and ATM. This can be changed at any time and will not affect the operation of the DPG.

ZERO SET: Over the course of time it may become necessary to reset the DPG to zero. This is a special function of the DPG and can only be done at zero pressure. Press and hold the POWER and ZERO buttons simultaneously until the display reads "ZERO SET". Release both buttons and the display will read zero pressure in the current pressure units selected.

LOW BATTERY: The DPG will display a "B" in the upper right corner of the display to indicate the battery is nearly discharged and the DPG will shortly cease operation. For best results replace the battery immediately and use only Alkaline or Lithium 9V batteries.

DPG25V Product Specifications

Pressure Range	-30 to 0 InHg (-14.7 to 0 PSI)
Measurement Units	InHg, PSI
Resolution	
PSI	0.1
InHg	0.01
Accuracy	< ± 0.5% BFSL (includes Non-linearity, Hysteresis and Non-repeatability)
Stability (1 year)	±0.25% FS (typ)
Overrange Protection	102 InHg (50 PSI)
Burst Pressure	255 InHg (125 PSI).
Pressure Cycles	>100 Million
Operating Temperature Range	0°C to 55°C (32°F to 130°F)
Storage Temperature Range	-40°C to 65°C (-40°F to 150°F)
Compensated Temperature Range	0°C to 55°C (32°F to 130°F)
Temperature Compensation Zero	< ±1.5% of FS
Temperature Compensation Span	< ±1.5% of FS
Pressure Sensor Connection	1/8th NPT Female
Update Rate	3 Samples per Second (typ)
Power	9-Volt Alkaline Battery
Automatic Power Off	1 Hour
Battery Life	100 Hours Continuous Operation (typ)
Case Material	Polycarbonate